



CHAWER

OUR SIXTY SECOND YEAR

Art Schultz W9BR
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Publisher

Meetings: 2nd and 4th Fridays each Month
U. C. Missions Bldg. Burnham Hall.
222 S. Downey Ave. 8:00 PM.

MEETING: May 11, 1979. Dave Zeph, W9ZRX of the Naval Avionics Fac.
will discuss the features of the new Drake line
of receivers and transceivers. The new R-1.

Meeting: The ATV club will hold their meeting on May 12th at the Ft.
Harrioss Rec. Center. Don Miller will demonstrate a neat little
ATV Trans and receiver in Kit form. Door prizes Homebrew Etc.

Meeting: A meeting of importance to all amateurs was hel at the Red Cres
Chapter house on Sat. April 21st. This meeting was rather lightly attend-
ed, but a number of Indpls Radio Club members were there. Mr Bruce Johnson
WA6IDN of the ARRL staff gave a report on his recent work in Africa in pre-
paration for the WARC conference this fall. African countries will play
a big role in the conference because each country gets one vote and there
are a lot of countries in Africa. Some of the highlights of his talk cen-
tered on the impression amateur radio makes on the African Scene. Mr John-
son who speaks eleven languages, traveled through as many of the countries
as possible promoting amateur radio through the distribution of radio re-
ceiver kits as a start to create interest in this form of communication.
He found many objections to amateur radio among the leaders, many of which
have been made worse by the actions of American amateurs in their operation
of DX expeditions, third party traffic and the indiscriminate use of the
phone patch. All of these things hurt in the struggle for votus. Most of
the Africans fear amateur radio for two reasons. Threat to the National
Security and the communication to the outside world of internal affairs.
The national aspect is complicated by the lack of technical skills among
the natives and the influence of missionaries who can communicate rather
easily by radio. Amateurs get caught up in these political moves thru the
use of radio communications without knowing the full extent of the impact
of their actions. The nationalisation of these countries' communications
systems is often hurt by the by-pass possible with radio. Yet, none of
these countries wants to be left out of the technical advances possible
if large numbers of their people can be trained in these skills, and they
realise that amateur radio is a very good training school for doing exact-
ly that. So the votes for Amateur radio are possible from Africa if things
go right. Mr Johnson is very well informed and certainly has had the ex-
perience to lead the fight for the Amateurs cause.

HAMFEST

Dayton is now over but the preparations for our Indy Hamfest on
July 8th. is just getting under way. Dave Timmerman WB9CER, will soon be
signing up volunteers for the prize booth which the club has manned the
last two years. There will be other jobs to be done but keep about an hour
open for the club effort.

D. McVicker, W9JZF is back home from the hosp and is recovering from a
serious operation on his lung. The club wishes him the best and a speedy
recovery.

Newsletter #5

INDIANAPOLIS RADIO CLUB W9JP.

Newsletter #5

May. 1979.

TRAVEL NEWS

Ron Williams, W9JVF traveled east for a week or so to visit in Virginia, his daughter, Ron liked what he saw around there especially interested in some high spots along the coast where there is nothing between your antenna and Europe, but the ocean. Hi.

PROGRAM REVIEW

On April 13th we had a big turnout of members and guests, totaling 50. Art Schultz, W9BR was the speaker and gave a dandy in depth presentation of the history and the use that has been made of the research and development which produced the Laser Beam. He started with the fore-runner of the Laser known as the Maser. From the research on the Maser, the

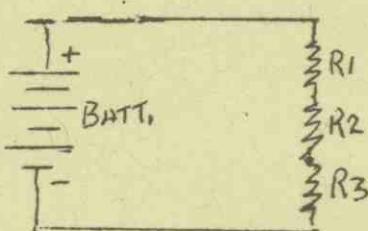
development of the Laser was started. The laser beam was created in a tubular type apparatus designed to keep the emissions flowing in a single direction thru the use of a 100% reflection at one end and a 95% reflection at the other end. These emissions were called photons. The photons escaped from the tube at the 95% end in a narrow beam of great velocity which could be controlled with extreme accuracy. This beam has become very useful in industry, medicine, electronics and many fields too numerous to mention. Fiber optics is a good example of one of the latest applications. However is is still rather awkward to now the grass with it Hi.

PROGRAM REVIEW

Another good friend of the club spoke on April 27th, Dick Judkins. The bad weather plus the fact that many were using that time to get their trip to Dayton together, kept the attendance to the lowest number this season. Those who attended were well rewarded in hearing a fine talk about those triangles we see on most schematics these days. These are Opt-Amps of Operational amplifiers and Dick was just the person to open up those symbols and show us what was inside. He started with an open end loop amplifier kept modifying the circuit as he expanded the uses of the device. When he added negative feedback, the circuit became more familiar and the capabilities of such a small device seemed fantastic, the differential amplifier was perhaps the most interesting of all and when used as a comparator, the range of its applications were almost unbelievable. The device can be made to measure with great accuracy. Dick has a very good manner of presentation and makes things much clearer than when you read it in a book, besides he tells you of some of the pitfalls which you might encounter when you get the old soldering iron in hand. He also has many short cuts and good advise based on years of experience. So Thanks Dick and we will be looking forward to your next talk.

PUZZLE PROBLEM

Jerry Lucas, W9BS, submitted the following puzzle problem from the QCWA News:



Data: $R_1 = 2$ ohms
 R_2 is dissipating 2 watts
 R_3 has a 2 volt drop.
 Voltage drop across R_2 is 7.5 volts greater than the drop at R_1

Find: Drop across each R Value of each R
 Current and power dissipation thru Each resistor, and battery voltage.

PROGRAM The program for the May 25th meeting To Be Announced.

AUCTION

May 11 th meeting.
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